

A BIBLIOGRAPHY OF IMPORTANT TILAPIAS (PISCES:CICHLIDAE) FOR AQUACULTURE

*Oreochromis macrochir, O. aureus, O. hornorum, O. mossambicus,
O. niloticus, Sarotherodon galilaeus, Tilapia rendalli and T. zillii*

PETER SCHOENEN

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Peter Schoenen

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Federal Republic of Germany

1984

**INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT
MANILA, PHILIPPINES**

**A bibliography of important tilapias
(Pisces: Cichlidae) for aquaculture**

Oreochromis macrochir, *O. aureus*, *O. hornorum*,
O. mossambicus, *O. niloticus*, *Sarotherodon*
galilaeus, *Tilapia rendalli* and *T. zillii*

PETER SCHOENEN

Published by the International Center for Living Aquatic Resources
Management, MCC P.O. Box 1501, Makati, Metro Manila, Philippines
with financial assistance from the International Development
Research Centre of Canada through ICLARM's Selective
Information Service project.

1984

Printed in Manila, Philippines

This bibliography is produced directly from the author's manuscript in
order to provide tilapia workers with a useful document in the shortest
time. The author should be consulted in the event of difficulty in
verifying details of particular references or in locating sources.

ISSN 0115-5997
ISBN 971-1022-06-0

Schoenen, P. 1984. A bibliography of important tilapias (Pisces: Cichlidae)
for aquaculture. *Oreochromis macrochir*, *O. aureus*, *O. hornorum*, *O.*
mossambicus, *O. niloticus*, *Sarotherodon galilaeus*, *Tilapia rendalli*
and *T. zillii*. ICLARM Bibliographies 3, Supplement 1, 191 p.
International Center for Living Aquatic Resources Management,
Manila, Philippines.

ICLARM Contribution No. 196

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Preface

Since the publication of "A Bibliography of Important Tilapias (Pisces: Cichlidae) for Aquaculture" in 1982 (see Schoenen 1982), a lot of further references came to my knowledge.

The references are all those published on these species up to the end of 1983. The reference numbers are consecutive from the first volume and, as before, subject and geographic indexes are provided.

To make them available as quickly as possible to scientists, field workers and libraries, I have decided to publish this first supplement.

I have to thank J.L. Maclean and ICLARM for the realization of the publication.

If users of the bibliography notice any errors or omissions, it would be appreciated if they would send details to the author again.

Peter Schoenen
March 1984

Acknowledgements

I am indebted to the following persons and institutions:

- Prof. Dr. Howard A. Bern, Univ. California, Dept. Zoology, Berkeley, California, U.S.A.
- Prof. Dr. Wilfried Hanke, Zool. Inst. (TH), Lehrstuhl II, Univ. Karlsruhe, Karlsruhe, F.R.G.
- Prof. Dr. C.H. Fernando, Faculty of Science, Dept. Biology, Univ. Waterloo, Waterloo, Ontario, Canada
- Mr. Saul Livshiz, Librarian, Fish and Aquaculture Research Station, Dor, Israel
- Dr. Jacques Moreau, Ecole Nationale Sup. Agronomique, Toulouse Cédex, France
- numerous libraries and many people

for providing additional material.

This work is dedicated to my wife Waltraud and my son Michael.

Oreochromis (Nyasalapia) macrochir (Boulenger, 1912)
(formerly: *Tilapia macrochir*)

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Oreochromis (Oreochromis) aureus (Steindachner, 1864)
(formerly: Tilapia aurea)

List of synonyms and misidentifications

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For further taxonomic informations, see: Trewavas, 1983

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(formerly: *Tilapia aurea*)

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| 188.10. Tritium
1097 1109 | 193.3. temperature
1354 |
| 189. Viscosity change
1037 | |
| 190. Visual social stimulation
1280 | |

G E O G R A P H I C I N D E X

- | | | | | | | | | | | |
|--|------|------|------|------|--|----------------------------|------|------|------|------|
| 1. Africa | | | | | | 5. Cuba | | | | |
| 0897 | 0902 | 0930 | 0933 | 0934 | | 1255 | | | | |
| 0936 | 0939 | 0949 | 0952 | 0954 | | | | | | |
| 0964 | 0967 | 1005 | 1006 | 1032 | | 6. Europe | | | | |
| 1033 | 1047 | 1059 | 1067 | 1068 | | 1165 | | | | |
| 1077 | 1087 | 1099 | 1120 | 1122 | | | | | | |
| 1134 | 1179 | 1180 | 1181 | 1182 | | 7. Guatemala | | | | |
| 1259 | 1281 | 1310 | 1317 | 1318 | | 1054 | | | | |
| 1341 | 1342 | 1343 | 1344 | 1347 | | | | | | |
| 1348 | 1349 | | | | | 8. Honduras | | | | |
| | | | | | | 1164 | | | | |
| 1.1. Ivory Coast | | | | | | | | | | |
| 1120 | | | | | | 9. India | | | | |
| | | | | | | 0878 | 1009 | 1011 | 1073 | 1074 |
| 1.2. Lake Kariba | | | | | | 1166 | 1167 | 1247 | 1327 | 1328 |
| 0936 | 1032 | 1033 | | | | | | | | |
| | | | | | | 10. Indonesia | | | | |
| 1.3. Lake Sibaya | | | | | | 1062 | | | | |
| 0930 | 0933 | | | | | | | | | |
| | | | | | | 11. Israel | | | | |
| 1.4. Lake St. Lucia | | | | | | 0913 | 1055 | 1170 | 1171 | 1172 |
| 1342 | 1343 | 1344 | | | | 1257 | 1300 | | | |
| | | | | | | | | | | |
| 1.5. Malawi | | | | | | 12. Japan | | | | |
| 1347 | 1348 | 1349 | | | | 1265 | 1314 | 1356 | | |
| | | | | | | | | | | |
| 1.6. Natal | | | | | | 13. Madagascar | | | | |
| 0952 | 0954 | 1341 | 1342 | 1343 | | 0927 | 1089 | 1090 | 1091 | 1092 |
| | | | | | | 1093 | | | | |
| 1.7. South Africa | | | | | | | | | | |
| 0934 | 1005 | 1006 | 1077 | | | 14. Malaysia | | | | |
| | | | | | | 1118 | 1232 | 1306 | | |
| | | | | | | | | | | |
| 1.8. Swaziland | | | | | | 15. Mexico | | | | |
| 0949 | | | | | | 1014 | 1124 | | | |
| | | | | | | | | | | |
| 1.9. Transvaal | | | | | | 16. Pacific Ocean; Central | | | | |
| 0967 | 1099 | | | | | 1125 | | | | |
| | | | | | | | | | | |
| 1.10. Zambia | | | | | | 17. Pakistan | | | | |
| 1134 | | | | | | 0873 | 0874 | 0875 | 0910 | 1057 |
| | | | | | | 1058 | 1188 | 1189 | 1190 | 1191 |
| | | | | | | 1192 | | | | |
| 1.11. Zimbabwe (formerly:
Rhodesia) | | | | | | | | | | |
| 0939 | 0964 | 1087 | 1179 | 1180 | | 18. Papua New Guinea | | | | |
| 1181 | 1182 | 1259 | 1310 | | | 0915 | 1012 | 1013 | 1141 | 1323 |
| | | | | | | 1339 | | | | |
| | | | | | | | | | | |
| 2. Asia | | | | | | 19. Philippines | | | | |
| 1161 | 1162 | | | | | 0953 | 0992 | 0993 | 0994 | 0995 |
| | | | | | | 0996 | 0997 | 0998 | 0999 | 1000 |
| 2.1. Southeast Asia | | | | | | 1010 | 1020 | 1021 | 1022 | 1023 |
| 0974 | | | | | | 1024 | 1025 | 1026 | 1027 | 1111 |
| | | | | | | 1143 | 1149 | 1229 | 1273 | 1274 |
| | | | | | | 1295 | 1350 | | | |
| 3. China | | | | | | | | | | |
| 0917 | | | | | | | | | | |
| | | | | | | | | | | |
| 4. Costa Rica | | | | | | 20. Singapore | | | | |
| 0920 | | | | | | 1062 | 1117 | | | |
| | | | | | | | | | | |

21. Sri Lanka (formerly:
Ceylon)
0973 1049 1266 1345 1346
22. Thailand
0969 1062 1100 1308
23. U.S.A.
0895 0896 0911 0912 0956
0961 0981 0982 0991 1002
1003 1004 1007 1040 1045
1052 1056 1086 1116 1131
1135 1158 1159 1160 1163
1169 1184 1200 1227 1268
1275 1276 1279 1284 1296
1302 1324 1340
- 23.1. Alabama
0895 0911 0912 0961 1007
1131 1200 1284 1296 1324
- 23.2. Arizona
1159
- 23.3. California
1040 1116 1184 1268
- 23.4. Colorado
1169
- 23.5. Florida
1275 1276
- 23.6. Hawaii
0956 1279
- 23.7. Louisiana
0896 1002
- 23.8. Puerto Rico
0991 1163
- 23.9. South Carolina
0981
- 23.10. Texas
1045 1052 1302 1340
- 23.11. Vietnam
1119

Oreochromis (*Oreochromis*) *niloticus niloticus* (Linnaeus, 1757)
(formerly: *Tilapia nilotica*)

N o t e :

For further taxonomic informations, see: Trewavas, E. 1983

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0506	0507	0508	0509	0510
0511	0512	0515	0516	0517
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0526	0527	0528	0529	0530
0531	0532	0533	0535	0536
0537	0538	0539	0540	0541
0542	0543	0544	0545	0546
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0552	0553	0554	0555	0556
0557	0558	0559	0560	0561
0562	0563	0564	0565	0566
0567	0568	0569	0570	0572
0573	0575	0576	0577	0578
0579	0580	0581	0582	0583

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0584	0585	0586	0587	0588
0589	0590	0591	0592	0593
0594	0595	0596	0597	0598
0599	0600	0601	0602	0603
0604	0606	0607	0608	0611
0612	0613	0614	0615	0616
0617	0618	0619	0620	0621
0622	0623	0624	0625	0627
0630	0632	0633	0634	0635
0636	0637	0638	0639	0641
0642	0643	0644	0645	0646
0647	0650	0651	0654	0655
0657	0662	0663	0664	0666
0667	0668	0669	0670	0671
0672	0675	0676	0677	0678
0680	0682	0683	0684	0685
0686	0687	0688	0689	0690
0691	0693	0694	0695	0696
0697	0698	0699	0708	0709
0710	0711	0712	0713	0715
0716	0718	0719	0720	0721
0725	0727	0728	0732	0733
0734	0736	0737	0738	0739
0741	0742	0743	0744	0745
0748	0749	0753	0755	0756
0757	0758	0759	0760	0761
0762	0763	0764	0765	0767
0768	0769	0770	0771	0772
0773	0775	0776	0777	0779
0781	0784	0786	0790	0794
0796	0798	0799	0805	0813
0815	0816	0818	0819	0820
0821	0823	0825	0826	0828
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0844	0845			

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049337.2. Body composition
049337.2.1. Body fat content
081937.3. Breeding
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0510	0524	0525	0532	0533
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0619	0675	0710	0742	0796
0799	0816	0818	0819	0820
0821				

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- 37.11.2. Power plant effluents
0506 0507
- 37.11.3. Sewage effluents
0499 0564 0566 0568 0569
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tal feeding)
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0545 0546 0547 0548 0549
0562 0566 0578 0584 0590
0591 0594 0595 0597 0598
0603 0710 0716 0742 0743
0744 0771 0796 0813 0816
0818 0820
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0572 0651 0688 0745 0758
0773 0819
- 37.15.2. Feed conversion
0538 0716
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- 37.15.6. Feeding ecology
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0689
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0547 0549 0602 0650
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0486 0490 0493 0539 0662
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0790 0818 0828
- 37.16.1. Food consumption
0662
- 37.16.2. Food conversion
0493
- 37.16.3. Food and feeding habits
0562 0786
- 37.17. Greenhouse
0506 0685 0686 0816
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0493 0527 0604 0636 0654
0662 0678 0689 0693 0748
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37.19. Hybridization

0482	0500	0507	0510	0531
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0557	0575	0577	0578	0596
0597	0606	0607	0611	0612
0621	0630	0640	0641	0643
0664	0677	0678	0690	0693
0709	0719	0720	0721	0725
0733	0734	0741	0776	0779
0782	0796	0816	0819	0820
0821	0834	0834	0839	0844

37.20. Hydrolysis-Resistant Organic Matter

0520

37.21. Incubation; artificial

0783

37.22. Integrated agriculture/aquaculture

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37.23. Integrated animal-fish farming

0500 0530 0636

37.24. Integrated fish farming

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37.25. Intensive culture

0528	0529	0538	0556	0612
0671	0713	0753	0819	0820
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37.26. Lagoon-fisheries

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0502	0503	0560	0634	0645
0669	0674	0676	0691	0752
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37.28. Manure systems (Fertilizers)

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0508	0539	0554	0556	0557
0565	0566	0582	0583	0584
0586	0590	0591	0594	0622
0623	0624	0630	0636	0637
0733	0796	0832	0833	

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37.31. Mono-culture/Mono-Sex culture

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0543	0654	0655	0684	0688
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37.33. Organic carbon balance

0844

37.34. Overwintering

0506	0507	0510	0515	0686
0816	0823			

37.35. Pen-culture

0761

37.36. Phytoplankton

0646 0743 0744

37.37. Poly-culture (Mixed-culture)

0540	0544	0545	0546	0547
0552	0582	0586	0588	0590
0593	0594	0595	0597	0600
0603	0622	0623	0624	0632
0636	0725	0770	0771	0794
0796	0816	0838	0839	

37.38. Pond-culture

0484	0487	0490	0500	0506
0507	0509	0510	0515	0522
0523	0531	0532	0540	0546
0551	0552	0554	0556	0557
0564	0566	0569	0577	0578
0579	0580	0582	0583	0585
0586	0591	0597	0612	0616
0620	0621	0622	0623	0624
0625	0630	0632	0636	0637
0638	0643	0646	0671	0675
0678	0682	0683	0693	0708
0710	0711	0716	0719	0720
0721	0737	0741	0748	0769
0777	0781	0786	0794	0796
0798	0799	0816	0819	0821
0838	0839	0844		

37.39. Predatory fishes

0515

37.40. Progeny sex-ratio

0522 0523

37.41. Raceways

0506 0507

37.42. Reproduction (Production)

0579	0589	0670	0720	0816
0838				

- 37.42.1. Reproduction, artificial
0817
- 37.43. Reservoir fisheries
0691 0784 0831
- 37.44. Rice-field culture
(Rice paddies)
0517 0589 0592 0593 0598
0599 0600 0601 0770
- 37.45. Sampling technique
0516
- 37.46. Small-scale Tilapia pro-
cessing operations
0732
- 37.47. Solar-algae ponds
0845
- 37.48. Statistics
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- 37.49. Stock assessment
0784
- 37.49.1. Stocking density
0484 0494 0506 0582 0584
0589 0592 0593 0621 0623
0643 0739 0844
- 37.49.2. Stocking weight
0599
- 37.50. Tank-culture
0493 0506 0555 0685 0734
0831 0845
- 37.51. Water recycling systems
0493
- 37.51.1. biological water re-
cycling systems
0506 0507
- 38. Fish Population changes
0560 0752
- 39. Food for man
0570 0633 0643 0644 0840
0841
- 39.1. Dried fish
0633
- 39.2. Smoked fish
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- 40. Freshwater Fish Fauna
0513 0609
- 40.1. man-induced changes
0513
- 41. Gametogenesis
0649
- 42. Gastric emptying time
0778
- 43. Gastrointestinal bacterial
flora
0800 0801 0802
- 44. Genetics
0683 0687 0709
- 45. Gill epithelium
0576
- 46. Granulosa Cells
0837
- 47. Haematology
0689
- 48. Heat inactivation of comple-
ments
0788
- 49. Heritability
0687 0805
- 50. Hermaphroditism
0782
- 51. Horsereadish peroxidase
0829
- 52. Immune hemolysis reactions
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- 53. Intestinal contents
0730
- 53.1. Intestinal synthesis
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- 53.2. Intestine; anaerobic bac-
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- 54. Introductions; on
0627 0736 0737 0772 0831
- 55. Ionoregulation
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56. Isoelectric focusing
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57. Lactate dehydrogenase isozymes
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58. Lakes Biology
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- 58.1. Bacteria in lakes
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59. L-ascorbic acid-AsA
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60. L-ascorbic acid 2-sulfate = AsS
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61. L-Gulonolactone Oxidase (E.C.,1.1.3.8)
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62. Life histories
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63. Light-temperature variations
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64. Limnology
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65. Lipoprotein lipase
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66. Liver; soluble fraction
0659
67. Lutein
0701
68. Marking/Tagging experiments
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69. Masculinization
0731
70. Maternal effects
0604
71. Mortality
0727
72. Movement patterns
0775
73. Muscle biopsy
0703
74. Muscle Ca^{2+} -ATPase
0705
75. Muscle protein
0628 0656 0729
76. Myosins; biochemical properties of
0658
77. Osmoregulation
0576
78. Otoliths
0804 0827
79. Ovulation; induced
0816
80. Oxygen consumption
0722 0723 0842 0843
- 80.1. dissolved oxygen
0636 0777
- 80.2. night-time dissolved oxygen
0777
81. Physiology; reproductive
0649
82. Plasmids; P
0492
83. Popular books/literature
0661
84. Protein
0481 0496 0650 0654 0655
0818
- 84.1. energy ratio
0662
- 84.2. metabolism
0789
- 84.3. requirements
0550 0587 0596
- 84.3.1. qualitative requirements
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- 84.3.2. quantitative requirements
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- 84.4. sources
0650
- 84.5. utilization
0493

- 85. Proximate composition of flesh
0486
- 86. Proximate composition of food
0486
- 87. Radiographic technique
0778
- 88. Respiration rate
0843
- 89. Retina
0726
- 89.1. Horsereadish peroxidase
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0726 0829
- 89.2. Visual pigments
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- 90. Rhodoxanthin identification
0653
- 90.1. isolation
0652 0701
- 91. Salinity (Brackish water, Sea
water)
0678 0693 0697
- 92. Sarcoplasmic protein
0835
- 93. Sarcoplasmic reticulum
0705 0706
- 94. Scales
0714 0749
- 95. Sex
- 95.1. determination
0683
- 95.2. differentiation
0816
- 95.3. identification
0495
- 95.4. ratio
0522 0523 0625 0683 0795
- 95.5. reversal
0490 0522 0523 0581 0683
0687 0731 0740
- 95.6. separation
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- 95.7. sexing fish fry
0608
- 96. Skeletal muscle
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- 97. Spawning
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- 97.1. induced
0783
- 97.2. methods
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- 98. Spermatogenesis
0670
- 99. Spirulina
0701
- 100. Sport-fishing
0542
- 101. Survival
0604
- 102. Taxonomy, Systematics,
Identification keys
0810 0811 0812
- 103. Temperature
- 103.1. adaptation
0706
- 103.2. effects of
0527 0536 0537 0678 0693
0698 0705 0706 0718
- 104. Testis
0670
- 105. Toxines
- 105.1. Toxicity
0518 0521 0793 0797
- 105.2. Anti-Germ₅₀
0793
- 105.3. Cypermethrin
0797
- 105.4. Heavy metals
0521

105.5. pesticide residues
0681

105.6. pyrethroid-synthetic
0797

105.7. toxicity tests
0793

106. Troponins
0792

107. Vitamin
0689

107.1. requirements
0650

108. Water

108.1. water current; effect of
0699

108.2. water pollution effects
0498

108.3. water & soil chemistry
0636

G E O G R A P H I C I N D E X

1. Africa

0483 0491 0499 0501 0502
0511 0516 0521 0524 0525
0527 0552 0558 0559 0560
0561 0563 0579 0609 0614
0632 0634 0638 0642 0643
0645 0647 0648 0663 0671
0672 0674 0675 0676 0679
0681 0694 0695 0696 0715
0716 0727 0738 0752 0757
0772 0775 0815 0822 0824
0825

1.1. Ghana 0752

1.2. Ivory Coast

0491 0499 0502 0524 0525
0558 0559 0563 0632 0671
0672 0674 0676 0757 0772

1.3. Katanga 0638

1.4. Kenya

0511 0681 0696 0825

1.5. Lake Albert (now: Lake Mobutu Sese Seko) 0526 0642

1.6. Lake Baringo 0681

1.7. Lake Edward (now: Lake Idi Amin Dada) 0521 0526 0642

1.8. Lake George 0521

1.9. Lake Kainji 0516 0645 0647 0648 0679 0822

1.10. Lake Kivu 0526 0642

1.11. Lake Victoria 0511 0663 0694 0696 0727 0775 0824 0825

1.12. Nigeria 0483 0609 0645 0647 0648 0679

1.13. Tanzania 0738

1.14. Uganda 0695

1.15. Volta Lake 0560 0752 0815

1.16. West Africa 0614

1.17. Zaire 0579

1.18. Zimbabwe (formerly: Rhodesia) 0527

2. Asia 0565

2.1. South East Asia 0635

3. Bangladesh 0562 0786

4. Brazil 0554 0555 0556 0557 0736 0741

5. China 0842

6. Colombia 0540 0737 0769

7. Costa Rica 0711

8. Cuba 0484 0775 0790

9. Egypt 0481 0489 0496 0497 0515 0571 0628 0644 0666 0667 0668 0669 0680 0749 0767 0784

9.1. Lake Borullus 0680

9.2. Lake Nasser 0497 0644 0666 0667 0668 0669 0767 0784

- 9.3. Lake Nubia
0667
10. Europe
0712 0713 0753
11. Hong Kong
0794
12. Indonesia
0627
13. Israel
0500 0512 0513 0535 0537
0575 0613 0630 0641 0657
0678 0693 0718 0719 0720
0721 0725 0759 0779 0781
0796 0818 0819 0820 0821
0830 0838 0839 0844
- 13.1. Dead Sea
0678 0693
- 13.2. Lake Kinneret
0613
14. Japan
0697 0698 0699
15. Madagascar
0518 0553
- 15.1. Lake Itasy
0553
16. Mexico
0612 0682 0762 0768 0799
17. Paraguay
0573
18. Philippines
0494 0517 0541 0543 0544
0545 0546 0547 0548 0549
0550 0551 0580 0581 0582
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0603 0605 0611 0615 0616
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0637 0664 0742 0743 0744
0761 0764 0770 0771 0773
0834
19. South America
0813
20. Sri Lanka
0831
21. Sudan
0487 0505
22. Thailand
0514 0564 0566 0567 0568
0569 0755
23. U.S.A.
0482 0490 0506 0507 0508
0509 0510 0522 0523 0539
0542 0577 0578 0606 0607
0608 0683 0684 0685 0686
0687 0688 0689 0708 0709
0710 0711 0732 0733 0734
0776 0777 0798 0805 0823
0826 0845
- 23.1. Alabama
0490 0506 0507 0508 0509
0510 0522 0523 0539 0683
0684 0685 0686 0687 0688
0689 0732 0733 0776 0777
0798 0823
- 23.2. Florida
0542 0826
- 23.3. Puerto Rico
0482 0577 0578 0606 0607
0608 0708 0709 0710

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0460 | 16. Densely Stocked Water
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| 7.4. Gamma Globulin
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| 7.5. Leucocytes
0460 | 18. Distribution of fish
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0444 | 19. Ecology
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| 9. Cell ridges
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0455 |
| 10. Chloride cells
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| 11. Chromosome behaviour
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| 12. Comparative physiology
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| 13. Condition factors
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22. Electrophoretic studies
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23. Endocrinology
- 23.1. Hormones (Drugs, Effects of)
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- 23.1.1. Ethyltestosterone
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- 23.1.2. Ethynyltestosterone
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- 23.1.3. Thyrotroph hormone
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- 23.2. Pituitary
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25. Energy sources, dietary
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- 28.1. Fatty Acids, Biosynthesis of
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- 28.2. Metabolism of fatty acids
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0467 0468 0469 0471 0472
0474 0475 0476 0477 0478
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0485 0486 0488 0491 0493
0496 0500 0502 0504 0510
0511 0513 0516 0518 0519
0522 0529 0530 0531 0543
0544 0549 0550 0551 0552
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- 32.1. Cage culture
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- 32.2. Closed Brackish Water Systems
0510
- 32.3. Dam fisheries
0518
- 32.4. Exploitation rates
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- 32.5. Feeding (incl. Supplemental feeding)
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- 32.5.1. Feed formulation
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- 32.5.2. Feed manufacture
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- 32.5.3. Feed processing
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- 32.5.4. Feeding ecology
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- 32.5.5. Feeding experiments
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- 32.5.6. Feeding rates
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- 32.5.7. Feeding regimes
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- 32.5.8. Feeds
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- 32.5.9. Feedstuffs analysis
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- 32.5.10. Toxins in feeds
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- 32.6. Food
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- 32.6.1. Food preferences
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- 32.6.2. Food relations
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- 32.8. Growth
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- 32.8.1. Growth capacity
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- 32.8.2. Growth determination
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- 32.8.3. Growth rate
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- 32.9. Heated effluents from a
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- 32.10. High-density culture
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- 32.11. Hybridization
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- 32.12. Intensive culture
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- 32.13. Irrigation canals
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- 32.14. Length-weight relationships
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- 32.15. Lipid requirements
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- 32.16. Man-made lakes
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- 32.17. Manure-Systems (Fertilizers)
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- 32.18. Mineral requirements
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- 32.27. Stocking
- 32.27.1. Stocking densities
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- 32.27.2. Stocking rates
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- 36. Intestinal micro-flora
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- 37. Introductions, on
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- 38. Ionoregulation
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- 39. Killing of fish fry
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- 40. Life histories
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- 41. Liver
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- 42. Marking/Tagging Experiments
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- 43. Melano-macrophages
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- 44. Mortality
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- 44.1. Mortality statistics
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- 45. Muscle protein
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- 46. Osmoregulation
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- 47. Ovulation, induced
0549
- 48. Oxygen consumption
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- 49. Photopic S-Potential
0507
- 50. Popular books/literature
0470 0483 0545
- 51. Protein
- 51.1. Protein requirements,
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- 51.2. Protein requirements,
quantitative
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- 51.3. Protein sources
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- 52. Retina
0441 0507
- 52.1. Visual pigments
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- 53. Salinity, Brackish water
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- 54. Scales
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- 55. Scotopic ERG
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- 56. Seasonal variations
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- 57.2. Sex reversal
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- 59. Starvation
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- 61. Temperature, Effects of
0452 0460
- 62. Toxine
- 62.1. Herbicides
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- 62.2. Larvicides
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- 62.3. Pesticides
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- 62.4. Toxicity
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- 63. Vitamin requirements
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- 64. Water
- 64.1. Water level, effect of ra-
pidly changing
0553
- 64.2. Water exchange, influence of
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0444

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 - 0456 0457 0468 0473 0476
 - 0477 0485 0491 0492 0496
 - 0502 0504 0509 0513 0514
 - 0516 0523 0526 0540 0541
 - 0551 0552 0553
- 1.1. Cameroon
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- 1.2. East Africa
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- 1.3. Ghana
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- 1.4. Ivory Coast
0491 0516
- 1.5. Kainji Lake
0449 0476 0477 0492 0551
- 1.6. Kenya
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- 1.7. Lake Victoria
0485 0502 0523 0526 0552
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- 1.8. Nigeria
0476 0492 0509 0540 0541
- 1.9. Uganda
0496 0553
- 1.10. Volta Lake
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2. Algeria
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3. Egypt
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- 3.2. Lake Quarun
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4. England
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6. Israel
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- 6.1. Lake Kinneret
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7. Japan
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8. Java
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9. Madagascar
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10. Malaysia
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12. Philippines
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0488 0489 0501 0524 0533
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- 15.3. Florida
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